

=> FILE CAPLUS  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.42	0.42

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 16:00:00 ON 11 SEP 2003  
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FILE COVERS 1907 - 11 Sep 2003 VOL 139 ISS 11  
FILE LAST UPDATED: 10 Sep 2003 (20030910/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S ELASTIC? (L) STRETCH? (L) COMPOSITE (L) SHEET

209836 ELASTIC?  
108526 STRETCH?  
246822 COMPOSITE  
149438 COMPOSITES  
281573 COMPOSITE  
(COMPOSITE OR COMPOSITES)  
237846 SHEET  
150472 SHEETS  
311422 SHEET  
(SHEET OR SHEETS)

L1 35 ELASTIC? (L) STRETCH? (L) COMPOSITE (L) SHEET

=> S SHIRR (L) INELASTIC (L) FIBROUS ASSEMBLY

2 SHIRR  
58443 INELASTIC  
13 INELASTICS  
58443 INELASTIC  
(INELASTIC OR INELASTICS)  
47778 FIBROUS  
112617 ASSEMBLY  
26972 ASSEMBLIES  
129528 ASSEMBLY  
(ASSEMBLY OR ASSEMBLIES)  
72 FIBROUS ASSEMBLY  
(FIBROUS (W) ASSEMBLY)

L2 0 SHIRR (L) INELASTIC (L) FIBROUS ASSEMBLY

=> S SHIRR

L3 2 SHIRR

=> S SHIRRED

L4 27 SHIRRED

=> D HIS

(FILE 'HOME' ENTERED AT 15:59:10 ON 11 SEP 2003)

FILE 'CAPLUS' ENTERED AT 16:00:00 ON 11 SEP 2003

L1 35 S ELASTIC? (L) STRETCH? (L) COMPOSITE (L) SHEET  
L2 0 S SHIRR (L) INELASTIC (L) FIBROUS ASSEMBLY  
L3 2 S SHIRR  
L4 27 S SHIRRED

=> S ELASTICALLY (L) STRETCHABLE (L) WEB

5938 ELASTICALLY

1863 STRETCHABLE

22969 WEB

6188 WEBS

25629 WEB

(WEB OR WEBS)

L5 6 ELASTICALLY (L) STRETCHABLE (L) WEB

=> S INELASTICALLY (L) STRETCHABLE (L) WEB

2058 INELASTICALLY

1863 STRETCHABLE

22969 WEB

6188 WEBS

25629 WEB

(WEB OR WEBS)

L6 2 INELASTICALLY (L) STRETCHABLE (L) WEB

=> D L6 1-2 BIB, ABS

L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:169087 CAPLUS

DN 136:221775

TI Elastically stretchable composite sheet and process for making the same

IN Kobayashi, Toshio; Goda, Hiroki

PA Uni-Charm Corporation, Japan

SO Eur. Pat. Appl., 11 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1184163	A2	20020306	EP 2001-307469	20010903
	EP 1184163	A3	20020605		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002069817	A2	20020308	JP 2000-266084	20000901
	US 2002061390	A1	20020523	US 2001-941566	20010830
	BR 2001005211	A	20020423	BR 2001-5211	20010831
	CN 1348748	A	20020515	CN 2001-130343	20020515
PRAI	JP 2000-266084	A	20000901		

AB An elastically **stretchable** composite sheet includes an elastically **stretchable** first **web** and an **inelastically stretchable** second **web** of thermoplastic synthetic resin fiber which is intermittently bonded to the first **web** in a y-direction. Component fiber of the second **web** has its cross-section cut in a direction orthogonal to the y-direction defined by a width w and a height h dimensioned to be at a ratio h/w less than 0.5. The composite sheet having such a structure improve its flexibility. A perspective view of a composite sheet according to this invention is depicted (no data).

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:729689 CAPLUS

DN 135:262319

TI Process for making an elastically stretchable composite sheet

IN Kobayashi, Toshio; Ohata, Hiroyuki; Yoshida, Masaki

PA Uni-Charm Corp., Japan  
SO Eur. Pat. Appl., 8 pp.  
CODEN: EPXXDW

DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1138296	A2	20011004	EP 2001-302858	20010327
	EP 1138296	A3	20020612		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	CA 2341038	AA	20010930	CA 2001-2341038	20010319
	US 2002053755	A1	20020509	US 2001-815399	20010322
	US 6613260	B2	20030902		
	BR 2001001747	A	20030107	BR 2001-1747	20010329
	CN 1325789	A	20011212	CN 2001-119217	20010330
PRAI	JP 2000-99494	A	20000331		

AB A composite **web** (formed from polypropene fibers) includes an elastically **stretchable web** and an **inelastically stretchable web** bonded together is stretched on a course defined between at least 2 nip roll pairs to provide an elastically **stretchable** composite sheet. The composite **web** is brought into contact with a peripheral surface of at least one roll of each nip roll pair over an area of the peripheral surface defined by a quadrant of this roll's circular cross section.

=> D HIS

(FILE 'HOME' ENTERED AT 15:59:10 ON 11 SEP 2003)

FILE 'CAPLUS' ENTERED AT 16:00:00 ON 11 SEP 2003

L1 35 S ELASTIC? (L) STRETCH? (L) COMPOSITE (L) SHEET  
L2 0 S SHIRR (L) INELASTIC (L) FIBROUS ASSEMBLY  
L3 2 S SHIRR  
L4 27 S SHIRRED  
L5 6 S ELASTICALLY (L) STRETCHABLE (L) WEB  
L6 2 S INELASTICALLY (L) STRETCHABLE (L) WEB

=> D L5 1-6 BIB,ABS

L5 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:169087 CAPLUS  
DN 136:221775  
TI Elastically stretchable composite sheet and process for making the same  
IN Kobayashi, Toshio; Goda, Hiroki  
PA Uni-Charm Corporation, Japan  
SO Eur. Pat. Appl., 11 pp.  
CODEN: EPXXDW

DT Patent  
LA English

FAN.CNT 1

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	EP 1184163	A3	20020605		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002069817	A2	20020308	JP 2000-266084	20000901
	US 2002061390	A1	20020523	US 2001-941566	20010830
	BR 2001005211	A	20020423	BR 2001-5211	20010831
	CN 1348748	A	20020515	CN 2001-130343	20020515
PRAI	JP 2000-266084	A	20000901		

AB An **elastically stretchable** composite sheet includes an

**elastically stretchable first web** and an inelastically **stretchable** second **web** of thermoplastic synthetic resin fiber which is intermittently bonded to the first **w b** in a y-direction. Component fiber of the second **web** has its cress-section cut in a direction orthogonal to the y-direction defined by a width w and a height h dimensioned to be at a ratio h/w less than 0.5. The composite sheet having such a structure improve its flexibility. A perspective view of a composite sheet according to this invention is depicted (no data).

L5 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2002:169059 CAPLUS  
 DN 136:201296  
 TI A process for manufacturing elastically stretchable and contractible composite sheet  
 IN Tange, Satoru  
 PA Uni-Charm Corporation, Japan  
 SO Eur. Pat. Appl., 7 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1184014	A2	20020306	EP 2001-307308	20010829
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002069816	A2	20020308	JP 2000-262656	20000831
	US 2002023710	A1	20020228	US 2001-944476	20010831
	CN 1345991	A	20020424	CN 2001-137948	20010831
PRAI	JP 2000-262656	A	20000831		

AB The process comprises steps of: (1) feeding a 1st web (A), capable of elastic stretch and contract, continuously in one direction and extending, (2) allowing the extended A to retract by an elastic stretch force of the web, (3) superimposing a 2nd web (B), capable of inelastic extension and made of thermoplastic synthetic fiber, on at least one surface of A after retraction and (4) joining B with A in an intermittent manner along the one direction.

L5 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2001:729689 CAPLUS  
 DN 135:262319  
 TI Process for making an elastically stretchable composite sheet  
 IN Kobayashi, Toshio; Ohata, Hiroyuki; Yoshida, Masaki  
 PA Uni-Charm Corp., Japan  
 SO Eur. Pat. Appl., 8 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1138296	A2	20011004	EP 2001-302858	20010327
	EP 1138296	A3	20020612		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	CA 2341038	AA	20010930	CA 2001-2341038	20010319
	US 2002053755	A1	20020509	US 2001-815399	20010322
	US 6613260	B2	20030902		
	BR 2001001747	A	20030107	BR 2001-1747	20010329
	CN 1325789	A	20011212	CN 2001-119217	20010330
PRAI	JP 2000-99494	A	20000331		

AB A composite **web** (formed from polypropene fibers) includes an **elastically stretchable web** and an inelastically **stretchable web** bonded together is

stretched on a course defined between at least 2 nip roll pairs to provide an **elastically stretchable** composite sheet. The composite **web** is brought into contact with a peripheral surface of at least one roll of each nip roll pair over an area of the peripheral surface defined by a quadrant of this roll's circular cross section.

L5 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2001:28589 CAPLUS  
 DN 134:91185  
 TI Process for making elastically stretchable thermoplastic composite sheet  
 IN Kobayashi, Toshio; Ishikawa, Hideyuki  
 PA Uni-Charm Corporation, Japan  
 SO Eur. Pat. Appl., 11 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1066957	A1	20010110	EP 2000-305625	20000704
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2001018315	A2	20010123	JP 1999-190934	19990705
	TW 446553	B	20010721	TW 2000-89113176	20000704
	CN 1279935	A	20010117	CN 2000-124060	20000705
	BR 2000004672	A	20010731	BR 2000-4672	20000705
	SG 83802	A1	20011016	SG 2000-3744	20000705
	US 6531014	B1	20030311	US 2000-610591	20000705
PRAI	JP 1999-190934	A	19990705		

AB A process for making an **elastically stretchable** composite sheet having a relatively low basis wt. comprises a step of bonding together two **webs** made of melt blown fibers using any of heat sealing, ultrasonic sealing, needle punching, and high pressure columnar water streams. The first **web** is made of thermoplastic synthetic fibers having a breaking extension at least of 70% while the sec. **web** is an **elastically stretchable** non-woven fabric, a woven fabric, and a **stretchable** film having breaking extension higher than that of the first **web**. The **elastically stretchable** composite sheet is suitable as a component of disposable garments such as disposable diapers, sanitary napkins and disposable gowns used in medical sites.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2001:25583 CAPLUS  
 TI Process for making elastically stretchable composite sheet  
 IN Kobatashi, Toshio; Ishikawa, Hideyuki  
 PA Uni-Charm Corporation, Japan  
 SO Eur. Pat. Appl.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1066961	A1	20010110	EP 2000-305624	20000704
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2001020171	A2	20010123	JP 1999-190935	19990705
	CN 1279936	A	20010117	CN 2000-124061	20000705
	BR 2000004671	A	20010731	BR 2000-4671	20000705
	SG 83803	A1	20011016	SG 2000-3746	20000705
	AU 763761	B2	20030731	AU 2000-45053	20000705
PRAI	JP 1999-190935	A	19990705		

AB In a process for making an **elastically stretchable** composite sheet having a relatively low basis wt., an **elastically stretchable** second **web** (42) is placed upon a first **web** (41) comprising **stretchable** first continuous fibers (35) and these first and second **webs** (41, 42) are intermittently bonded together at first bond regions (4A) to obtained a first composite **web** (43) which is, in turn, stretched under a plastic deformation of the first continuous fibers (35) and then **elastically** contracted. Thereafter, the first and second **webs** (41, 42) are supplementarily bonded together at second bond regions (4B) to obtain a second composite **web** (44) as the **elastically stretchable** composite sheet.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1998:163517 CAPLUS  
DN 128:193714  
TI Cross-directionally stretchable elastomeric fabric laminated by thermal spot bonding  
IN Srinivasan, Ramesh; Coslett, W. Andrew; Colace, Angelo  
PA International Paper Company, USA  
SO PCT Int. Appl., 33 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9808678	A1	19980305	WO 1997-US15150	19970828
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 5955276	A	19990921	US 1997-849021	19970527
	AU 9742384	A1	19980319	AU 1997-42384	19970828
	EP 921941	A1	19990616	EP 1997-940658	19970828
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRAI	US 1996-705208	A	19960829		
	US 1994-346456	B2	19941128		
	WO 1997-US15150	W	19970703		
AB	The laminate includes an elastomeric film (e.g., styrene block copolymer) having one or two nonwoven <b>webs</b> (4, 6) of carded thermoplastic staple fibers (e.g., polypropylene) thermally point bonded thereto using heated calendar rolls. The resulting laminated fabric is <b>stretchable</b> by at least 100% in the cross direction without breaking for at least two cycles and recovers <b>elastically</b> . The fiber content of the nonwoven <b>webs</b> is .gtoreq.50% high-elongation polyolefin staple fibers having breaking strain .gtoreq.400%.				

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	50.63	51.05

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
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ENTRY  
-5.21

SESSION  
-5.21

STN INTERNATIONAL LOGOFF AT 16:05:37 ON 11 SEP 2003